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APPLICATION NO).	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/895,307		06/29/2001	Hong Jiang	42390P10579 .	42390P10579 . 2386	
8791	7590	12/18/2006	•	EXAM	EXAMINER	
		LOFF TAYLOR &	CZEKAJ,	CZEKAJ, DAVID J		
12400 WILSHIRE BOULEVARD SEVENTH FLOOR LOS ANGELES, CA 90025-1030			ART UNIT	PAPER NUMBER		
			2621			
			DATE MAILED: 12/18/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
		09/895,307	JIANG, HONG
Office Action Summary		Examiner	Art Unit
		Dave Czekaj	2621
The Period for Re	e MAILING DATE of this communication app eply	ears on the cover sheet with the c	orrespondence address
WHICHE - Extensions after SIX (6 - If NO perio - Failure to re Any reply re	ENED STATUTORY PERIOD FOR REPLY /ER IS LONGER, FROM THE MAILING DA of time may be available under the provisions of 37 CFR 1.13 () MONTHS from the mailing date of this communication. If the for reply is specified above, the maximum statutory period we ply within the set or extended period for reply will, by statute, seceived by the Office later than three months after the mailing ent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be timil apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	l. ely filed the mailing date of this communication. 0 (35 U.S.C. § 133).
Status			
2a)⊠ This	ponsive to communication(s) filed on <u>06 Oc</u> s action is FINAL . 2b)☐ This be this application is in condition for allowan	action is non-final.	secution as to the merits is
	ed in accordance with the practice under E		
Disposition of	of Claims		
. 4a) 0 5)	m(s) <u>1-3,5-8,10-14,16-19,21-25,27,28,30-3</u> Of the above claim(s) is/are withdraw m(s) is/are allowed. m(s) <u>1-3,5-8,10-14,16-19,21-25,27,28,30-3</u> m(s) is/are objected to. m(s) are subject to restriction and/or	n from consideration. 3,35,36,38 and 41 is/are rejected	
Application F	Papers	· · ·	
10)∏ The App Rep	specification is objected to by the Examiner drawing(s) filed on is/are: a) accelicant may not request that any objection to the datacement drawing sheet(s) including the correction oath or declaration is objected to by the Example 1.	pted or b) objected to by the E lrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority unde	r 35 U.S.C. § 119		
a)	nowledgment is made of a claim for foreign of the bound of the priority documents. Certified copies of the priority documents. Certified copies of the priority documents. Copies of the certified copies of the priority application from the International Bureau the attached detailed Office action for a list of	have been received. have been received in Application ty documents have been received (PCT Rule 17.2(a)).	on No d in this National Stage
Attachment(s)			n fil
1) Notice of F 2) Notice of E 3) Information	teferences Cited (PTO-892) traftsperson's Patent Drawing Review (PTO-948) to Disclosure Statement(s) (PTO/SB/08) to Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te

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DETAILED ACTION

Response to Arguments

On pages 9-12, applicant argues that Wu fails to disclose an enhancement residual addition applies to a final base layer output after a base layer clipping operation. While the applicant's points are understood, the examiner respectfully disagrees. See for example Wu figure 20. There Wu illustrates a base layer clipping operation 632. The output of this clipping operation is fed into a buffer 634 and then a motion compensator 622. The output is then fed to the adder of the enhancement layer. Hence, the enhancement residual is added to the base layer output after the clipping operation is performed. Further, the intermediate enhancement layer can be considered a "base layer" to the upper enhancement layer, in which case the output of the clipping operation 650 is fed to a frame buffer 652 and then a motion compensator 624. The output is then fed to a DCT 662, HQPD predictor 664, and finally to an adder 672. Further, no calculation of enhancement layer quantization residue is performed in the intermediate or upper enhancement layers. Therefore the rejection has been maintained.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

2. Claims 1-14,16-19, 21-25, 27, 28, 30-33, 35, 36, 38 and 41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wu et al. (6700933), (hereinafter referred to as "Wu").

As for Claim's 1, 2, 6, 7, 11, 12, 16, 17 and 21-41, Wu et al. teaches a method and system for encoding and decoding a video sequence of pictures by generating a first body of data, that he calls the base layer and lower quality video, as well as a second body of data that is dependent upon the video sequence and a reconstructed portion of the first body of data, this he calls this the enhancement layers and higher quality video (Wu: Column 3, lines 17-26). He teaches reusing the circuitry for generating the first body of data that generates the second body of data in Figure 9. The output of Reference numbers 208 and 210 are inputs for the second body of data. Figure 20 shows the decoding operations on the first and second bodies of data. Figure 20 also shows the combing of the first and second bodies of data which is also useful in reusing the circuitry for decoding the first and second bodies of data at Reference points 626 and 622. The output of these reference points shows how they are then inputs to the second body of data. Figure 20 also shows how the output of Reference point 632 combines the clipped data of the first and second bodies of data where the reconstructed portion of the first body of data includes data that have been clipped (Wu: Column 21, lines 37-41; see also Figure 20). Wu further discloses an enhancement residual addition applies to a final base layer output after a base layer clipping operation (Wu: figure 20). While Wu fails to disclose the enhancement processing is independent of any intermediate data in the base layer, Wu does disclose that the enhancement or

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higher quality layers are predicted form at least the same or lower quality layer, but not necessarily the base layer (Wu: column 7, lines 17-20). The examiner notes that in the cases where multiple enhancement layers are used, as show in Wu's figures 4-5, the enhancement layers can be processed without using information from the base layer. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to implement the enhancement processing independent of data in the base layer in order to obtain an apparatus that operates more efficiently by not relying on data from previous calculations.

As for Claim's 3, 8, 14 and 19, Wu et al. teaches that the units of the second bodies of data include a block of video data (Wu: Column 10, lines 14-28).

As for Claim's 5, 10, 13 and 18, Wu et al. teaches a method and instructions to determine the difference between the source video sequence and the reconstructed portion of the first body of data (Wu: Column 21, lines 8-15; Column 22, lines 10-17).

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dave Czekaj whose telephone number is (571) 272-7327. The examiner can normally be reached on Mon-Thurs and every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on (571) 272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MEHRDAD DASTOURI
SUPERVISORY PATENT EXAMINER